



1/7

SEQUENCE LISTING

<110> Sukhatme, Vikas P.

<120> Anti-Angiogenic Peptides and Methods of Use Thereof

<130> 1440.1023-011

<140> US 09/589,777

<141> 2000-06-08

<150> PCT/US98/26057

<151> 1998-11-16

<150> US 60/108,536

<151> 1998-04-22

<150> US 60/082,663

<151> 1998-04-22

<150> US 60/067,888

<151> 1997-12-07

<160> 23

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 555

<212> DNA

<213> Mus musculus

<220>

<221> misc_feature

<222> (1)...(525)

<223> protein EM1

<221> misc_feature

<222> (1)...(501)

<223> protein EM2

<221> CDS

<222> (1)...(552)

<400> 1

cat act cat cag gac ttt cag cca gtg ctc cac ctg gtg gca ctg aac
His Thr His Gln Asp Phe Gln Pro Val Leu His Leu Val Ala Leu Asn
1 5 10 15

48

acc ccc ctg tct gga ggc atg cgt ggt atc cgt gga gca gat ttc cag
Thr Pro Leu Ser Gly Gly Met Arg Gly Ile Arg Gly Ala Asp Phe Gln
20 25 30

96

tgc ttc cag caa gcc cga gcc gtg ggg ctg tcg ggc acc ttc cgg gct
Cys Phe Gln Gln Ala Arg Ala Val Gly Leu Ser Gly Thr Phe Arg Ala
35 40 45

144

ttc ctg tcc tct agg ctg cag gat ctc tat agc atc gtg cgc cgt gct	192
Phe Leu Ser Ser Arg Leu Gln Asp Leu Tyr Ser Ile Val Arg Arg Ala	
50 55 60	
gac cgg ggg tct gtg ccc atc gtc aac ctg aag gac gag gtg cta tct	240
Asp Arg Gly Ser Val Pro Ile Val Asn Leu Lys Asp Glu Val Leu Ser	
65 70 75 80	
ccc agc tgg gac tcc ctg ttt tct ggc tcc cag ggt caa ctg caa ccc	288
Pro Ser Trp Asp Ser Leu Phe Ser Gly Ser Gln Gly Gln Leu Gln Pro	
85 90 95	
ggg gcc cgc atc ttt tct ttt gac ggc aga gat gtc ctg aga cac cca	336
Gly Ala Arg Ile Phe Ser Phe Asp Gly Arg Asp Val Leu Arg His Pro	
100 105 110	
gcc tgg ccg cag aag agc gta tgg cac ggc tcg gac ccc agt ggg cgg	384
Ala Trp Pro Gln Lys Ser Val Trp His Gly Ser Asp Pro Ser Gly Arg	
115 120 125	
agg ctg atg gag agt tac tgt gag aca tgg cga act gaa act act ggg	432
Arg Leu Met Glu Ser Tyr Cys Glu Thr Trp Arg Thr Glu Thr Thr Gly	
130 135 140	
gct aca ggt cag gcc tcc tcc ctg ctg tca ggc agg ctc ctg gaa cag	480
Ala Thr Gly Gln Ala Ser Ser Leu Leu Ser Gly Arg Leu Leu Glu Gln	
145 150 155 160	
aaa gct gcg agc tgc cac aac agc tac atc gtc ctg tgc att gag aat	528
Lys Ala Ala Ser Cys His Asn Ser Tyr Ile Val Leu Cys Ile Glu Asn	
165 170 175	
agc ttc atg acc tct ttc tcc aaa tag	555
Ser Phe Met Thr Ser Phe Ser Lys	
180	

<210> 2
 <211> 184
 <212> PRT
 <213> Mus musculus

<400> 2
 His Thr His Gln Asp Phe Gln Pro Val Leu His Leu Val Ala Leu Asn
 1 5 10 15
 Thr Pro Leu Ser Gly Gly Met Arg Gly Ile Arg Gly Ala Asp Phe Gln
 20 25 30
 Cys Phe Gln Gln Ala Arg Ala Val Gly Leu Ser Gly Thr Phe Arg Ala
 35 40 45
 Phe Leu Ser Ser Arg Leu Gln Asp Leu Tyr Ser Ile Val Arg Arg Ala
 50 55 60
 Asp Arg Gly Ser Val Pro Ile Val Asn Leu Lys Asp Glu Val Leu Ser
 65 70 75 80
 Pro Ser Trp Asp Ser Leu Phe Ser Gly Ser Gln Gly Gln Leu Gln Pro
 85 90 95
 Gly Ala Arg Ile Phe Ser Phe Asp Gly Arg Asp Val Leu Arg His Pro
 100 105 110
 Ala Trp Pro Gln Lys Ser Val Trp His Gly Ser Asp Pro Ser Gly Arg
 115 120 125

Arg Leu Met Glu Ser Tyr Cys Glu Thr Trp Arg Thr Glu Thr Thr Gly
 130 135 140
 Ala Thr Gly Gln Ala Ser Ser Leu Leu Ser Gly Arg Leu Leu Glu Gln
 145 150 155 160
 Lys Ala Ala Ser Cys His Asn Ser Tyr Ile Val Leu Cys Ile Glu Asn
 165 170 175
 Ser Phe Met Thr Ser Phe Ser Lys
 180

<210> 3

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> Oligonucleotide

<400> 3

ggcatatgca tactcatcag gacttt

26

<210> 4

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> Oligonucleotide

<400> 4

aactcgagct atttggagaa agaggt

26

<210> 5

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Leader peptide on protein produced by prokaryotic
 expression system pET17b, mouse endostatin begins
 immediately after.

<400> 5

Met Gly His His His His His His His His Ser Ser Gly His
 1 5 10 15Ile Asp Asp Asp Asp Lys His Met
 20

<210> 6

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Oligonucleotide

<400> 6

aagcggccgc ctatttggag aaagaggt

28

<210> 7

<211> 21

```

<212> PRT
<213> Artificial Sequence

<220>
<223> Leader peptide on protein produced by prokaryotic
      expression system pET28a, mouse endostatin begins
      immediately after.

<400> 7
Met Gly Ser Ser His His His His His Ser Ser Gly Leu Val Pro
  1           5           10           15
Arg Gly Ser His Met
  20

<210> 8
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide

<400> 8
ttccatatatgc atactcatca ggactttcag cca 33

<210> 9
<211> 35
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide

<400> 9
tttagcggccg cctactcaat gcacaggacg atgta 35

<210> 10
<211> 38
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide

<400> 10
tttagcggccg cctagttgtg gcagctcgca gctttctg 38

<210> 11
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide

<400> 11
ggaaattcca tactcatcag gacttt 26

<210> 12
<211> 32

```

```

<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide

<400> 12
aagaattcca tcatcatcat catcacagca gc 32

<210> 13
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> Leader peptide on protein produced by eukaryotic
      yeast expression system pPICZaA, mouse endostatin
      protein begins immediately after.

<400> 13
Glu Phe Met Gly His His His His His His His His Ser Ser
  1           5           10          15
Gly His Ile Asp Asp Asp Asp Lys His Met
  20          25

<210> 14
<211> 44
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide

<400> 14
tttgaattcg cccacagcca cccgcacttc cagccgggtgc tcca 44

<210> 15
<211> 44
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide

<400> 15
aaaagcggcc gcctacttgg aggcagtcat gaagctgttc tcaa 44

<210> 16
<211> 51
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide

<400> 16
tttttgaat tcatttcaag tgcccaattat gagaaggctg ctctgcattt g 51

<210> 17
<211> 50

```

```

<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide

<400> 17
aagaatgcgg ccgccttactt cctagcgctc gtcatgaaac tgttttcgat      50

<210> 18
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide

<400> 18
aattccatca ccatcaccat cacg      24

<210> 19
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide

<400> 19
aattcgtgat ggtgatggtg atgg      24

<210> 20
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Leader peptide on protein produced by eukaryotic
      - yeast expression system pPICZaA, mouse endostatin
      protein begins immediately after.

<400> 20
Glu Phe His His His His His His
  1           5
<210> 21
<211> 42
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide

<400> 21
ttccatatga tatactccctt tgatggtcga gacataatga ca      42
<210> 22
<211> 47
<212> DNA

```

<213> Artificial Sequence

<220>

<223> Oligonucleotide

<400> 22

aatgcggccg cttacttcct agcgtctgtc atgaaaactgtt tttcgat

47

<210> 23

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Leader peptide on protein produced by eukaryotic
yeast expression system pPICZaA, apomigren protein
begins immediately after.

<400> 23

Glu Phe Met Gly Ser Ser His His His His His Ser Ser Gly Leu

1

5

10

15

Val Pro Arg Gly Ser His Met

20